



Missouri Department of Natural Resources
Muddy Creek - WBID 0557
Aquatic Invertebrate Monitoring by MoDNR 2006-2007

Org	Site	Site Name	Date	Score
MoDNR	1	Muddy Cr. @Sec.15,61N,24W	Fall 2006	18
MoDNR	2	Muddy Cr. @Sec. 27,61N,24W	Fall 2006	18
MoDNR	3	Muddy Cr. @SW Sec.14,62N,24W	Fall 2006	20
MoDNR	4	Muddy Cr. @NW Sec.24,63N,24W	Fall 2006	20
MoDNR	5	Muddy Cr. @NW Sec.24,64N,24W	Fall 2006	20
MoDNR	1	Muddy Cr. @Sec.15,61N,24W	Spring 2007	16
MoDNR	3	Muddy Cr. @Sec. 27,61N,24W	Spring 2007	14
MoDNR	4	Muddy Cr. @SW Sec.14,62N,24W	Spring 2007	18
MoDNR	5	Muddy Cr. @NW Sec.24,63N,24W	Spring 2007	18

The Missouri Department of Natural Resources collected and analyzed aquatic invertebrate samples. Staff followed the department's Environmental Services Program's written standard operating methods contained in "Semi-Quantitative M. Macroinvertebrate Stream Bioassessment" by R. Sarver, 2003. Invertebrate communities are judged to be impaired if the percent of sampling sites receiving a score of 16 or more is significantly less than for reference streams in the same ecological drainage unit. Scores of 16 or more are considered to reflect unimpaired macroinvertebrate communities.

Reference streams in this ecological drainage unit score 16 or higher on 79.5 percent of all samples. For Muddy Creek, eight of nine samples, or 88.9 percent, scored 16 or higher. This is a higher percentage than the reference streams in this ecological drainage unit. Thus, Muddy Creek is judged to have an **unimpaired** aquatic invertebrate community.